



New Technology Advancement

Logica

www.logica.com

Year of Incorporation - 1969

Company overview:

Logica delivers the complete range of IT services that is expected from a large player in the industry - from consulting and outsourcing services to focused technology services and solutions

Innovation

The innovation called Logica EMO allows wireless monitoring and reporting of vehicular emissions on real-time basis. This sustainability offering empowers a driver to improve his driving pattern and thereby empowers him to turn green. The incentive is transferred to the driver by oil companies and governments working together, who use this data to offer differential fuel pricing to drivers, rewarding them by offering lower fuel price if they drive greener. At the heart of this innovation is an integrated plug-in device that connects to the on-board computer chip of all existing vehicles (manufactured after 1999) and transmits emission-values from the vehicle wirelessly to a central office. The device also makes every vehicle intelligent in a manner that it acts as connected node in the dynamic traffic network. It makes vehicles location- and context-aware allowing them to constantly exchange contextual information such as traffic status and infrastructure usage and allows for cooperation with other vehicles across different modes of transportation. EMO offers audible feedback on the driving behaviour of the driver in real-time to allow him to alter the driving style to make most efficient use of fuel. This sustainability offering provides the measure of emissions under actual driving conditions via a unit of measure called EMO Green Index and when used as a feedback to drivers via an altered fuel price, sensitizes them on how their driving behavior impacts emissions and fuel consumption. This innovation makes it cheaper for citizens to turn green than not to be green. EMO combines creative use of technology with innovation in business model and progressive policy-making, to play a critical role in delivering CO2 emissions cuts needed to combat global climate change.

Impact of innovation

External Impact

EMO has showcased Logica's capability in providing new-age innovations that have the potential to change the way people work, live and play. EMO has been conceptualized and designed by Engineers in Logica India to help combat global climate change. It has made an impact on a wide range of stakeholders in the eco-system that includes Governments, regulatory bodies, oil companies, vehicle manufacturers, individual driver citizens and fleet companies. The solution has many applications amongst which it can be used to implement differential fuel pricing that rewards environmentally friendly driving and vehicles. Research shows that if all Governments and

oil companies came together and adopted Logica's EMO offering, which creates a platform for the introduction of differential fuel pricing and rewards economical and environmentally-friendly drivers, the average oil consumption per vehicle would decrease by twelve percent and achieve the corresponding reduction in CO2 emissions.

Awards and Recognition

EMO has been showcased in many international platforms and industry forums. The solution was demonstrated at the ITS World Congress in September 2009 in Stockholm.